

Information Operations Systems

New Horizons Symposium

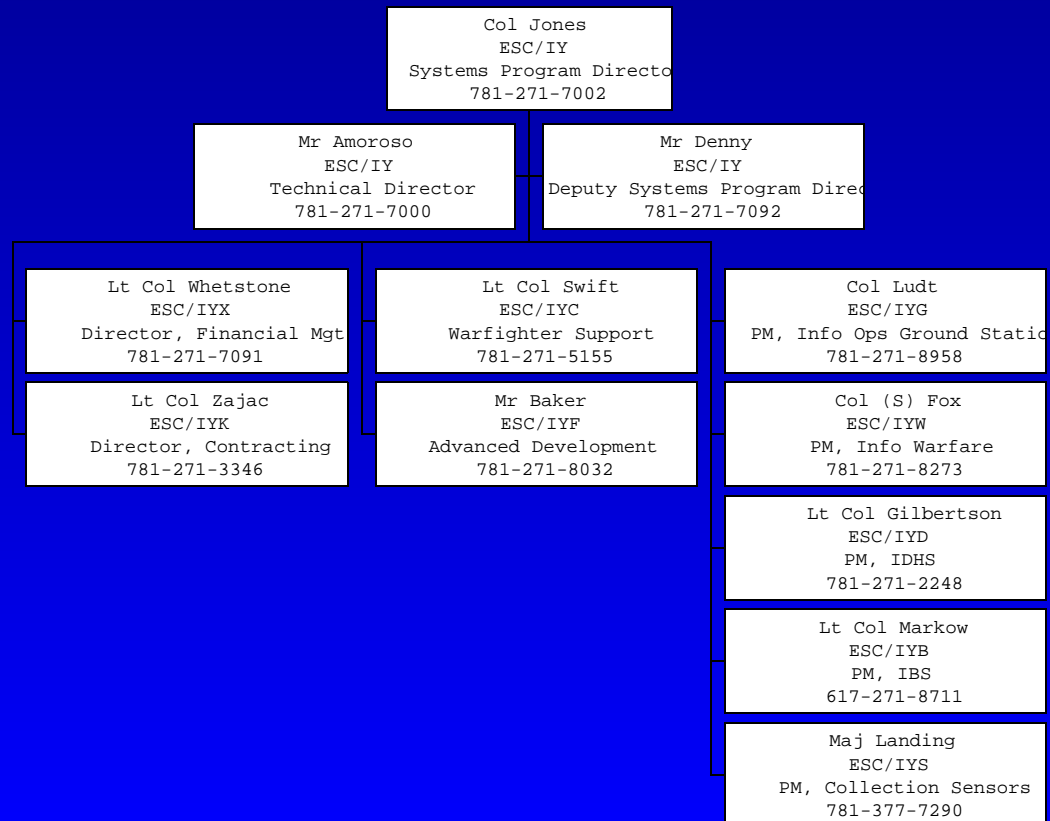
13-14 November 1997

Presented By:
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ESC/IY
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Outline

- **Organization**
- **Mission**
- **Overview: existing contracts**
- **Overview: new projects**
- **Industry opportunities**
- **Future needs/trends**

Organization



Mission Statement

Provide integrated Information Operations for use throughout all levels of conflict ...

Integrate information-based capabilities which collect, process, exploit and disseminate an uninterrupted flow of information.

Integrate information warfare capabilities which protect our information operations and exploit, attack or deny an adversary's ability to do the same.

Existing Contracts - ABI

- Program Name: Airborne Broadcast Intel (ABI)
 - Contract #: F19628-95-C-0143/F19628-96-D-0052
 - Contractor(s): Lockheed Martin/McDonnell Douglas Aerospace/Boeing
 - Issuing office: ESC/AVK-1/ESC/PKY
 - Type vehicle: Basic contract - CPAF/Labor hr. ID/IQ Services
 - Current value: \$1.3M
 - Estimated total value: \$25M

Industry Opportunity - ABI

Program: Airborne Broadcast Intelligence

Objective: Integrate IBS information into Airborne platforms for situational awareness, threat identification and amplification, and flight safety

Anticipated procurement approach will include:

- Funding will not come from central source. Each platform is responsible for their funding, but IBS Program Office will provide systems engineering, IBS standards and tools
- Contractors should look for opportunities to help with IBS integration into AF, Navy and Army platforms
- Technology Insertion Program: To quickly field new ideas, the IBS Program Office will sponsor some demos. Little money for FY98, but expect \$1-3M in FY99 and beyond

Future Needs/Trends - ABI

- Technology areas:

- Airborne certified, lightweight, low capacity uninterruptible power supply (UPS)

- Airborne rugged computer hard drives (100's of GB)

- Evolutionary acquisition strategies

- Commercial products:

- Avionics form factor computers (3/4 ATR)

- Continuing areas of emphasis/trends:

- Smaller, lighter, higher performing computer processors and data storage

Overview

New Projects - IBS

Program Name: Integrated Broadcast Service

Anticipated schedule: TBD

- HERBB info posted/Draft RFP
- Final RFP
- Contract award: 4th QTR FY98

Program value: \$90-100M

Customer: CINC's

POC

- Major Tim McQuade
- ESC/IYB
- (781) 271-4889

Industry Opportunity - IBS

Currently in the Market Research Phase

Technology/objective of program: On-time delivery of prioritized near real time information

Anticipated procurement approach will include:

- **Source Selection, use existing contract, PRDA, BAAA, CRDA)**
- **Related prior efforts: TDDS, TRIXS and TIBs**
- **Small business opportunities: TBD**
- **Subcontracting opportunities: TBD**
- **Anticipated contract type(s): Various**

Future Needs/Trends - IBS

- ▮ **On time delivery of prioritized near real time information**

Technology areas: Communications

- Antennas, Modulation, Routing

Information Management

- Correlation and Fusion

Evolutionary acquisition strategies

Commercial products: Routers, Multiplexers, Modems, workstations and Network Control

- ▮ **Continuing areas of emphasis/trends:
Merging of C2 and Intel into a common operating picture**

Overview

New Projects - UMS

- Project Name: Unattended MASINT Sensors (UMS) (STEEL RATTLER/STEEL EAGLE)

Anticipated schedule

- Award: TBD

Program value: Current \$500K, Estimated \$25+M

Customers: DIA/CMO, HQ AIA, SOCOM, CENTCOM, ACC, PACOM, ARMY, DEA, NPC, ACDA, etc.

POC

- Major Don Landing
- ESC/IYS
- 781-377-7290

Industry Opportunity - UMS

Project: UMS

Develop and manufacture hand and air deployable seismic/acoustic sensors with upward growth to other sensor types

Develop communications data network, signal processing, data processing and displays

Anticipated procurement approach will include:

- **Funding may not come from a central source. Each MAJCOM will be responsible for their funding, but the UMS PO will coordinate systems engineering, acquisition and logistics support.**

Overview

New Projects - VARM

- Project Name: Vulnerability and Risk Management (VARM) Tool

Software Tool Enables Self Assessment of IW Program Risks

Anticipated schedule

- RFP: Spring 98
- Award: Summer 98

Program value: \$2-3M

Customers: AFC2A & AFMC Program Offices

POC

- Major Dotts
- ESC/IYW
- 781-271-7068

Industry Opportunity - VARM

- **Objective: Enable Self Assessment of IW Program Risks**
- **Approach:**
 - Source Selection**
 - Small Business Opportunity**
 - Contract: CPIF**

Future Needs - IW STUDY

- Looking for Good Ideas for IW Studies**
 - Defensive IW**
 - Critical USAF Infrastructure Protection**
- Hope to Fund a Few Small Studies in FY98**

Industry Opportunity - RPS

Project: RIGS PRODUCTS & SERVICES

RPS provides COTS based Imagery Intelligence Ground System products and services for National, Tactical and Theater operations support

RPS Joint CORE work at the RPS Migration Facility provides for infusion of new capability and prototyping

Avenues for Industry Input:

- Identify potential Government customers needing Imagery Products
- Identify products that would enhance existing or planned systems through either RPS Prime Contractor at the RMF

Overview

New Projects - DWIC

Project Name: Deployable Wing Intelligence Capability (DWIC)

Anticipated schedule

- Contract award - TBD

Program value: Current \$600K, Estimated \$10M

Customer: USAFE/IN

POC

- Lt Jeff Bergstrom
- ESC/IYD
- 781-271-8847

Industry Opportunity - DWIC

Project: DWIC

Provide novel ways to create a deployable system which can operate at two level of security

Integrate the intel related software products from the different services into one joint application which have a common operating picture on all systems

Anticipated procurement approach will include:

- **Funding will not come from a central source. Each MAJCOM is responsible for their funding, but the DWIC PO will provide systems engineering.**

Future Needs/Trends - DWIC

- Developing the system to achieve two levels of security is of high importance.**
- Tech areas: Communications**
 - Light weight antennas which provide worldwide coverage and greater than 64 kbs**
 - Light weight portable and ruggedized UNIX workstations**
- Merging C2, Force Protection, and Intel into a common package**
- Smaller, lighter, higher performance computer processors and data storage**

Existing Contracts - AMHS

- Program Name: Automated Message Handling System (AMHS)

Contract #: F19628-90-D-0029

Contractor(s): McDonnell Douglas Aerospace (a wholly owned subsidiary of The Boeing Company)

Issuing Office: ESC/IYK

Type Vehicle: FFP/T&M ID/IQ

Current Value: \$40.2M

Estimated total value: \$44.7M

Overview

New Projects - C2-MAWS

· C2 Multimedia Archive Web Server (C2-MAWS)

Contract #: TBD

Contractors: TBD

Issuing Office: ESC/IYK

Type Vehicle: TBD

Estimated total value: TBD

Customer: All current and future AMHS sites

POC

- Lt Col Edward W. Gilbertson
- ESC/IYD
- 781-271-2248

Industry Opportunity - C2-MAWS

Project: C2-MAWS

Provide multimedia historical archive database completely Web-enabled in a DMS environment

AUTODIN network and messaging capabilities will be replaced by the Defense Message System (DMS)

DMS is not chartered to replicate all existing AUTODIN-based messaging capabilities

C2-MAWS http web server interfaces to DMS to provide messaging services:

- **FBIS/wire service inputs**
- **Retrospective search/message archive**
- **Backside distribution**

Other ways to transition AMHS to DMS world

Future Needs/Trends - AMHS

- ▮ **Transition of AMHS to DMS Architecture via Command and Control Multimedia Archive Web Server (C2-MAWS)**
- ▮ **Technology Areas:**
 - Messaging**
 - Web technology**
 - Commercial Products: Verity Search 97 (web based search engine, web server, workstations, LAN)**
- ▮ **Continuing areas of emphasis/trends:**
 - Merging C2 and Intel messaging methods**